

CLAIM LISTING

1. (Previously Presented) A medical device comprising a surface and a coating applied to the surface of the medical device,

the coating comprising a copolymer of a polyalkylene glycol terephthalate and an aromatic polyester, with the copolymer having a weight average molecular weight between about 10,000 and about 300,000,

the coating further comprising a biologically active agent,

and the surface being a material selected from the group consisting of metals, metal alloys, ceramics, and glasses.

2. (Previously Presented) A medical device according to claim 1, wherein the polyalkylene glycol is selected from the group consisting of polyethylene glycol terephthalate, polypropylene glycol terephthalate, and polybutylene glycol terephthalate.

3. (Previously Presented) A medical device according to claim 2, wherein the polyalkylene glycol is polyethylene glycol terephthalate.

4. (Previously Presented) A medical device according to claim 1, wherein the polyester is selected from the group consisting of polyethylene terephthalate, polypropylene terephthalate, and polybutylene terephthalate.

5. (Previously Presented) A medical device according to claim 4, wherein the polyester is polybutylene terephthalate.

6. (Previously Presented) A medical device according to claim 1, wherein the copolymer comprises 20-90 wt.%, based on the weight of the copolymer, of the polyalkylene glycol.

7. (Previously Presented) A medical device according to claim 1, wherein the weight average molecular weight of the polyalkylene glycol is from about 150 to about 4000.

8. (Cancelled)

9. (Cancelled)

10. (Previously Presented) A medical device according to claim 1, wherein the biologically active agent is chosen from the group consisting of antimicrobial agents, antibacterial agents, anti-fungal agents, anti-viral agents, anti-tumor agents, immunogenic agents, lipids, lipopolysaccharides, hormones and growth factors.

11. (Previously Presented) A medical device according to claim 1, wherein the biologically active agent is chosen from the group consisting of peptides, oligopeptides, polypeptides and proteins.

12. (Cancelled)

13. (Previously Presented) A medical device according to claim 1, wherein the surface is a surface of a medical device selected from the group consisting of catheters, stents, fibres, non-woven fabrics, vascular grafts, porous metals for acetabulum revision, and porous scaffolds for tissue engineering.

14. (Previously Presented) A medical device according to claim 1 which is porous upon application to the surface.

15. (Previously Presented) A method for applying the coating to the surface of the medical device according to claim 1, comprising brushing, spraying, wiping, dipping, extruding or injecting.

16. (Original) A method according to claim 15, wherein the surface is cleaned and/or subjected to a mechanical treatment prior to application of the coating.

17. (Previously Presented) A method according to claim 15, wherein the coating is applied from a solution or suspension of the copolymer and the biologically active agent.

18. (Cancelled)
19. (Previously Presented) A method according to claim 17, wherein a pore-forming agent is included in the solution or suspension.
20. (Cancelled)
21. (Previously Presented) A medical device according to claim 1 selected from the group consisting of catheters, fibres, non-woven fabrics, vascular grafts, porous metals for acetabulum revision, dental filling materials, materials used in osteo-synthesis, cardiac patches, sutures, soft and hard tissue scaffolds and fillers, stents, bone void fillers intended for the repair of bone defects, intrauterine devices, root canal fillers, drug delivery pumps, implantable infusion pumps, spacer devices, implants containing medicinal products, and scaffolds for tissue engineering.
22. (Previously Presented) A medical device according to claim 1, wherein the copolymer comprises 40-70 wt.%, based on the weight of the copolymer, of the polyalkylene glycol.
23. (Previously Presented) A medical device according to claim 1, wherein the weight average molecular weight of the polyalkylene glycol is from about 200 to about 1500.
24. (Previously Presented) A medical device according to claim 1, wherein the weight average molecular weight of the copolymer lies between about 40,000 and about 120,000.
25. (Previously Presented) A medical device according to claim 21, wherein the material used in osteo-synthesis is a pin or a bone screw.
26. (Previously Presented) A medical device according to claim 21, wherein the hard tissue scaffold and filler is calcium phosphate or bioglass.